LITHIUM BROMIDE AIR CONDITIONING PLANT (*)NOTE: Circled figures are critical values requiring 637 CL SUBMARINES FOR OFFICIAL USE ONLY shutdown and/or immediate corrective action.) STANDARD ENGINEERING DEPARTMENT LOG SSN ENGR LOG NO (FILE BY) USS DATE Special Instructions: See reverse for important notes (1) - (10); Equilibrium Diagram; Watch Hours/Comments; and Signature blocks. HOURLY CHECKS MAX NORM MIN 02 03 04 05 06 07 80 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 1. Evaporator Absolute *(.20` .36 .28(-) Press in Hq ABS 2. Generator Pump Disch 10 4.5(-) 2 Press PSI 3. Absorber Pump 5 10 13 Discharge in Hg VAC 4. Refrigerant Pump 9 4.5 0 Discharge Press PSI 5. Strong Solution 204 to *225 154 220(-) Temp. °F 6. Refrigerant Overflow *(35 90 60-70 Temp. °F (Note 3) 7. Vapor Condensate *115 109(-) 95 Temp. °F (Note 8) 8. Sea Water in Absorber °F 89 85(±3) 81 9. Sea Water out Absorber 99 94(-) 85 10. Sea Water out 101(-) 90 106 Condenser °F 11. Chilled Water Inlet 45 56 52(-) Temp. °F 12. Chilled Water Outlet 49 45(-) *(38 Temp. °F 13. Chilled Water Flow *(45) 80 150 in H2O 14. Strong Solution out 149(-) 161 119 of Ht. Exch. °F (Note 2) 15. Absorber Sump Level In 3-4(±) *(1 6 16. Air Press PSI 3 (Note 4) *(33) 30(-) 4 17. Steam Press PSI 18. Purge Pump Disch 61 50±5 39 Press PSI (Note 5) 19. Refrigerant Pump Suct. *(35) 48 44(-) Temp. °F (Note 2) TIME TIME TIME DAILY CHECKS MAX NORM MIN DAILY CHECKS MAX NORM MIN DAILY CHECKS MAX NORM MIN 0000 1200 0000 1200 0000 1200 1. Weak Solution Specific 8. Generator Pump 15. Absorber Leak 1.71(-) 1.60 1.72 107 104 (-) 90 10 0 5 Gravity (Note 6) Suct. Temp. °F (Note 2) Detection aft PSI/inHa 9. Absorber Solution 2. Weak Solution Sample 16. Purge Tank Level 1.03 97(-) 86 47 43(-) 34 14 8 Temp. °F (Note 6) Sat. Temp. °F (Note 7) ln. 3. Weak Solution % 10. Absorber Temp. 17. Charge mvd 52 3 61 60(-) 0 Initial Added balance Concentration (Note 7) Spread °F (Note 7) Adjustments gal. gal. 4. Purge Tank Specific 1.56-11. Equilibrium Diagram 17a. Refrigerant 1.63 1.55 Yes No Plotted (Note 9) (Note 10) Gravity (Note 6) 1.62 5. Purge Tank Sample 12. Condenser Leak 17b. LiBr Solution 10 70 45-69 44 0 5 Temp. °F (Note 6) Detection fwd PSI/in Ha (Note 10) 6. Purge Tank 13. Absorber Leak 56 51 10 52-55 0 5 Concentration % Detection fwd PSI/in Ha 7. Refrigerant Water 14. Condenser Leak 1.01 1.00 0.99 10 5 Specific Gravity Detection aft PSI/inHq NAVSEA 9514/2 (Rev. 4-85) (Previous edition is obsolete; destroy stock) FOR OFFICIAL USE ONLY (This form replaces all L. B. Air Cond. Plant Engr. Dept. Logs) (CONTINUED ON BACK) S/N 0116-LF-095-1410

NOTE: See Diagram - Notes (1) - (10) Below	v. Continue notes on I	log comment sheet if ad	dditional e							
TIME	NOTES		NOTE: See Diagram - Notes (1) - (10) Below. Continue notes on log comment sheet if additional space is needed.							
TIME NOTES				TIME			NOTES			
SIGNATURE OF LPO	DATE SIGNED	SIGNATURE OF DIVISION	OFFICER			DATE SIGNED	SIGNATURE OF ENGINEER		DATE SIGNED	
				NOTES 1 THROUGH 10						
			2. This tethermome 3. Tempe 4. Ships y steam val 5. Purge should the 6. Specificate to be 1 7. The ab a. On it ntersec absorber s b. Det spread. C c. The gravity ve 8. Vapor higher tha overconce loads. 9. Lithium a. Plot b. Plot c. Tall d. Smaoverconce e. Plot 0959-043	emperature may peter or similar (N) cratures lower this with 20 PSI air u ve. pump should not in be 45 - 55 PSI ic gravities and a recharged into plosorber solution is equilibrium diag its with the general solution saturation and the period of the peter solution conctentically, to the beautiful concentration of lithium Bromide Equilibrium Bromide Equilibrium peter and thinner platler and wider pentrated solution Equilibrium Diagonal for the second of the peter and thinner platler and wider pentrated solution Equilibrium Diagonal for the second of the seco	require a t SN 6685- an normalls se: NORI t normally IG. saturation ram, locatator pumpon temperator pumpon temperator p	emperature dial 100-373-3436). Indicate refrigerant M 20(-). MAX 21.37 operate unless the temperatures are metemperature and able intersection of we of suction temperature atture. Ween the solution saccum test may indice selection temperature in the diagram. The selection is a considerable of the diagram. The selection is a plant operating at 10 a plant operating at 10 a plant operating at a te fouled seawater late an low obstruction.	Ships with 15 PSI air use; NORM 15 (-). steam valve air pressure increased to 15 It easured using Carrier Test Kit. (NSN 9G-sorber spread are as follows: eak solution specific gravity and sample the tert, then horizontally to the right edge of the turation temperature and refrigerant pumpate the presence of noncondensible gase; ending the intersection of the generator presence blocked condenser drain llines. Symmetower than normal sump level, particularly capacity.	MAX 16. Air pressure of 2SI and is still at least 12 4120-00-797-8648) or significant and the diagram. The corresponding that the purgoump suction temperature ump suction temperature at higher a factor of the diagram. The sproviding that the purgoump suction temperature proms may be sporadic, it array noticeable at higher a corresponding that the purgoump suction temperature proms may be sporadic, it array noticeable at higher a corresponding to the sporadic process of the sporadic	lenotes air signal to PSI. Pump pressure smilar. All samples stal line upward until onding value is the his is the absorber e system is secured. and specific nclude uir con ditioning	